

# Design

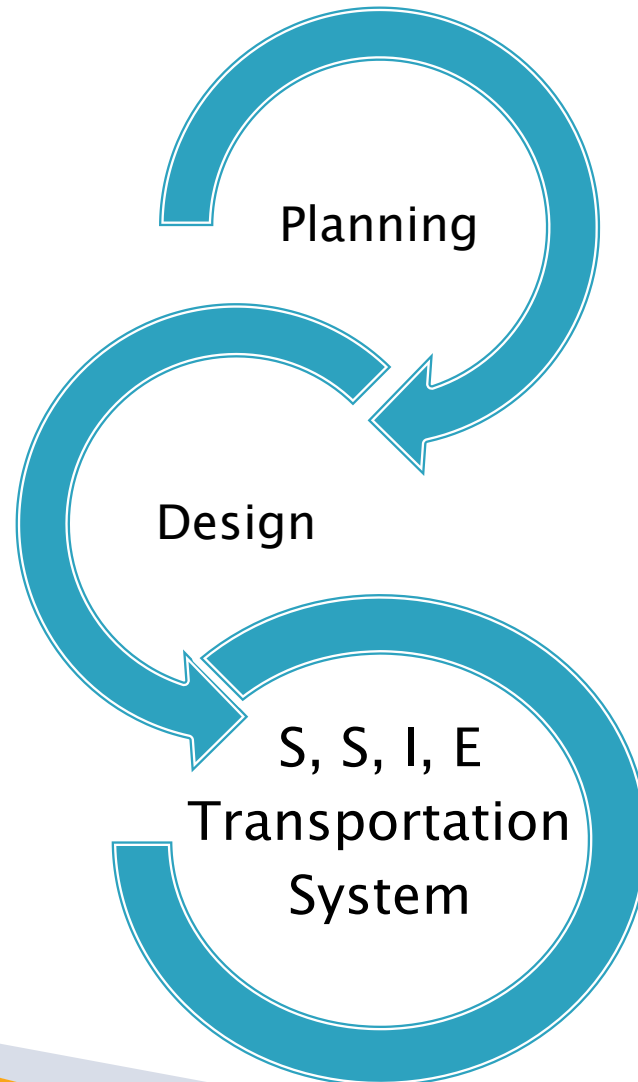
**Janice Benton**  
**Deputy Division Chief**  
**Division of Design**

**PLANNING ACADEMY**

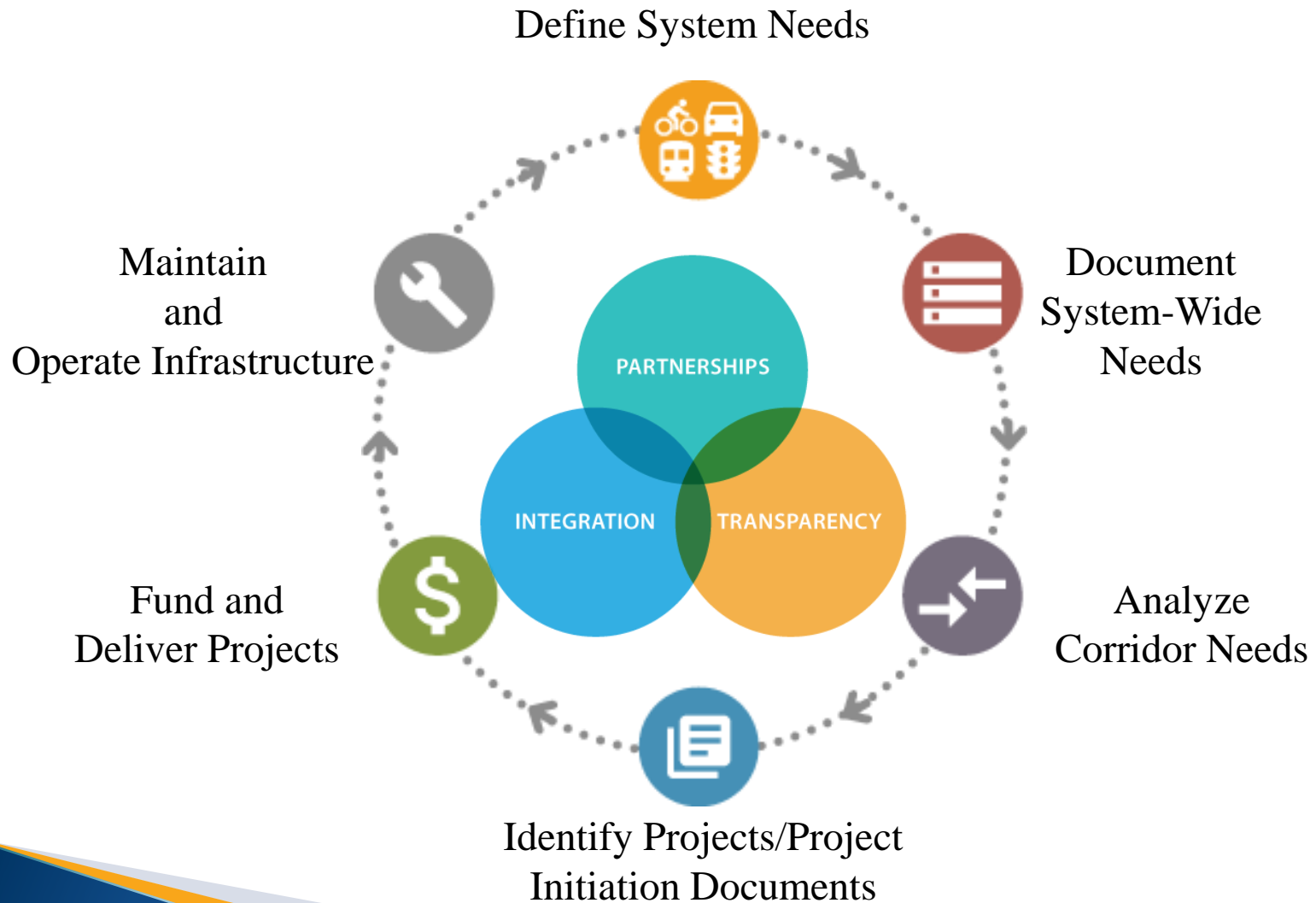
**May 18, 2017**



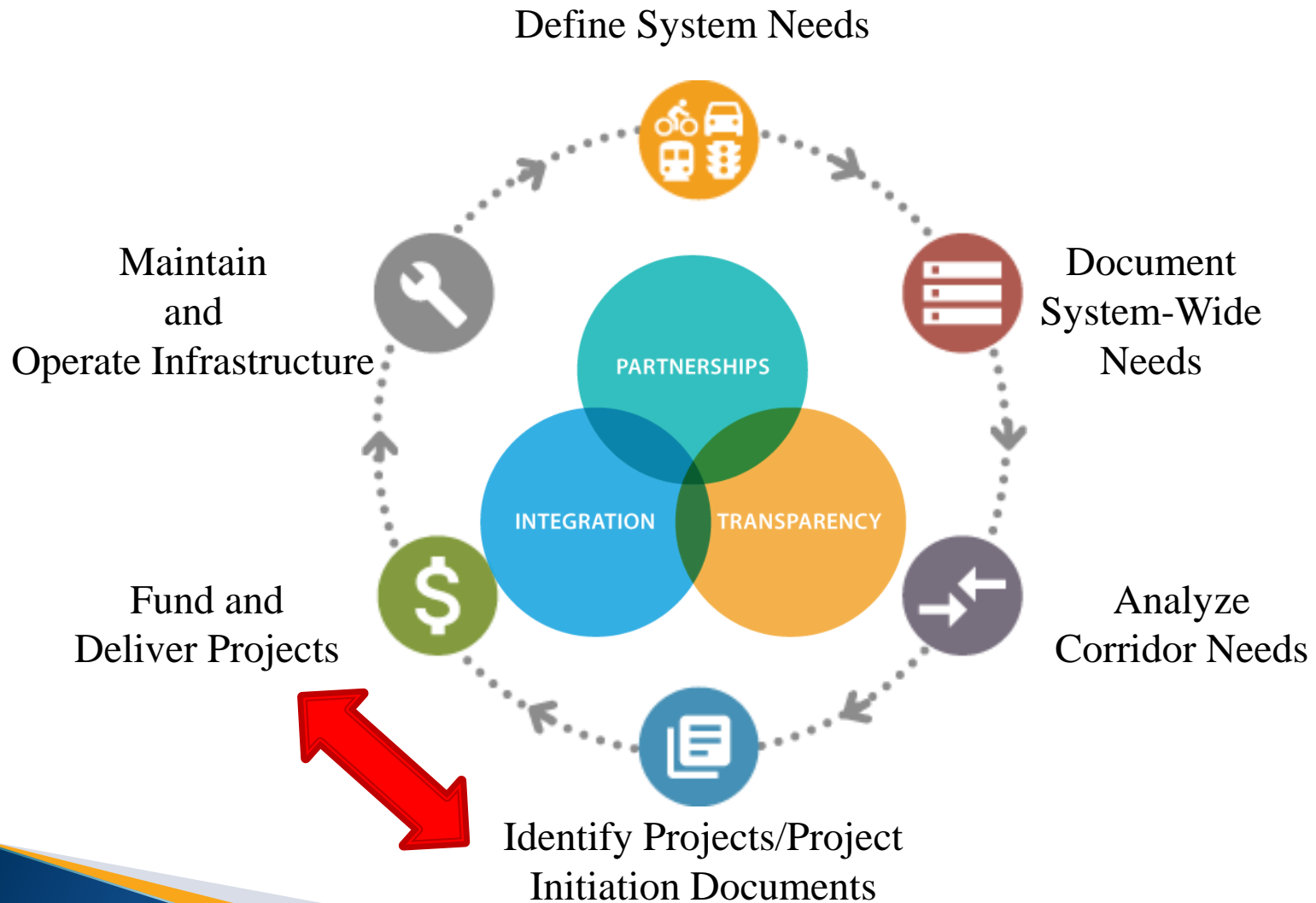
# The integration of Planning and Design



# Complete Transportation Framework



# Complete Transportation Framework





# Identify Projects

## ❖ Identify Projects

- Multi-disciplinary process that defines the complete project—what is in scope and what is not in scope and why.
- Multi-objective project selection and prioritization
- Applying performance criteria
- Develop integrated and multi-objective PIDs



# Identify Projects

## ❖ Identify Projects

- Multi-disciplinary process that defines the complete **project—what is in scope and what is not in scope and why.**
- Multi-objective project selection and prioritization
- Applying performance criteria
- Develop integrated and multi-objective PIDs



# Identify Projects

## ❖ Identify Projects

- Multi-disciplinary process that defines the complete project—what is in scope and what is not in scope and why.
- Multi-objective project selection and prioritization
- Applying performance criteria
- Develop integrated and multi-objective PIDs

**PROJECT  
PURPOSE  
AND NEED**



# Fund and Deliver Projects



## ❖ Programming

- Projects adopted by the California Transportation Commission
- Confirm Deliverability
- Project Level Accountability
  - Performance measures and outputs
  - Scope, cost, and schedule

## ❖ Project Delivery

- Project Approval and Environmental Document
- Plans, Specifications, and Estimates
- Acquire Right-of-Way and Obtain Approval Permits
- Construct Project
- Project Closeout





# Fund and Deliver Projects



## ❖ Programming

- Projects adopted by the California Transportation Commission
- Confirm Deliverability
- Project Level Accountability
  - Performance measures and outputs
  - Scope, cost, and schedule

## ❖ Project Delivery

- **Project Approval** and Environmental Document
- **Plans, Specifications, and Estimates**
- Acquire Right-of-Way and Obtain Approval Permits
- Construct Project
- Project Closeout

# What is Design?

- It's a process that builds on best practices
- It applies reasonable engineering judgment
- It accounts for context sensitive solutions (users, environment, adjacent owners,...)
- Applies design concepts and innovations to provide solutions to transportation problems

# Design Delegations

- ▶ Implemented delegations of design decisions to Districts
- ▶ Delegation Agreements Between each District Director and Design Division Chief
- ▶ Program and corporate responsibilities in HQ

# Challenges in Design

- ❖ No two situations are alike
- ❖ One size does not fit all
- ❖ Transportation world is evolving:
  - Rarely do we build on new alignments
  - Squeezing more into existing corridors
  - No longer are we vehicle centric >>> *Multimodal, Sustainable, Integrated*
  - Funding Constraints
- ❖ Encourage innovative designs
- ❖ Balance the expectations of our partners and stakeholders

# Design Decisions

- What is the **purpose/need** for the project?
- What is the **context of the project? Place/facility type/function**
- What is the **future for this route?**
- What are the **stakeholder issues/concerns?**
- Are there any **identified (data driven) safety issues?**
- What is the **value added for the added cost?**
- What are the **risks and how do we mitigate them?**
- Does it put us in a **better situation than we are today?**

# Desired Outcomes

- **Maintain the safety, integrity and sustainability of our facilities**
- Ensure appropriate application of Department standards and procedures
- Obtain input from our local partners and stakeholders
- Maximize the value of our investments

# **Design Decision Applications**

# District 2 – Downtown Redding Rightsizing

Before



After





# District 4 – SR 35

## Sloat Blvd, San Francisco



# District 7 – SR 19 Temple City

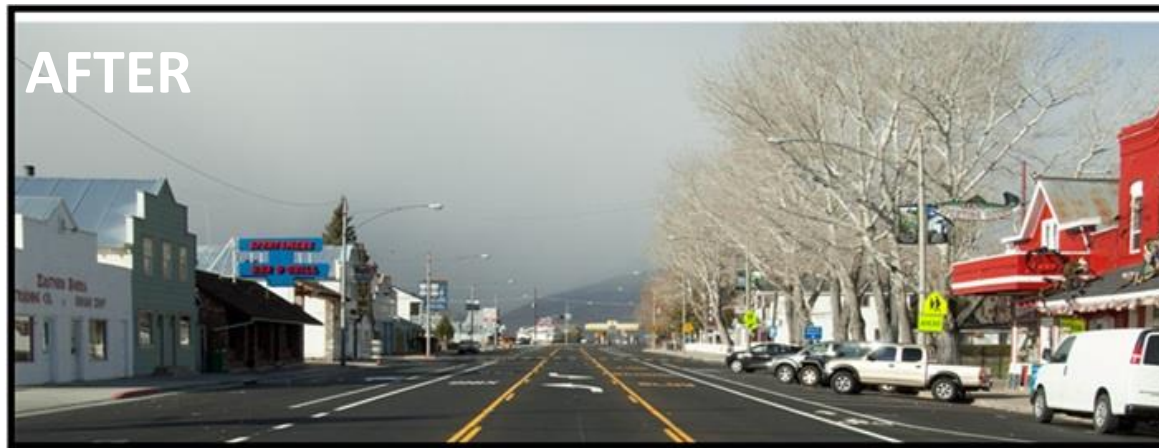
Before



After



# District 9 - US 395 Bridgeport, CA





# District 5 – SR 227, San Luis Obispo

## Roadway Reconfiguration

Before



After



# SR 1 – San Luis Obispo County Santa Maria River Bridge Replacement





# US 101 Ventura County HOV





# US 101 Ventura County Bike Lane



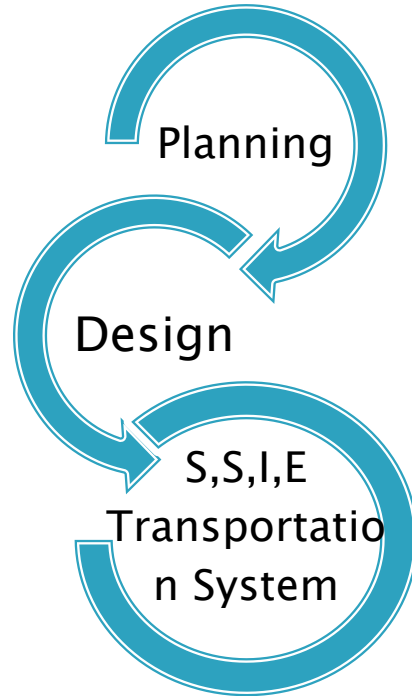


# US 101 Ventura County Coastal Access





# The integration of Planning and Design



Any Questions?